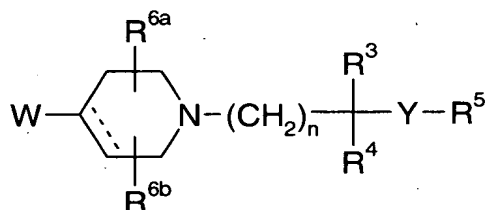


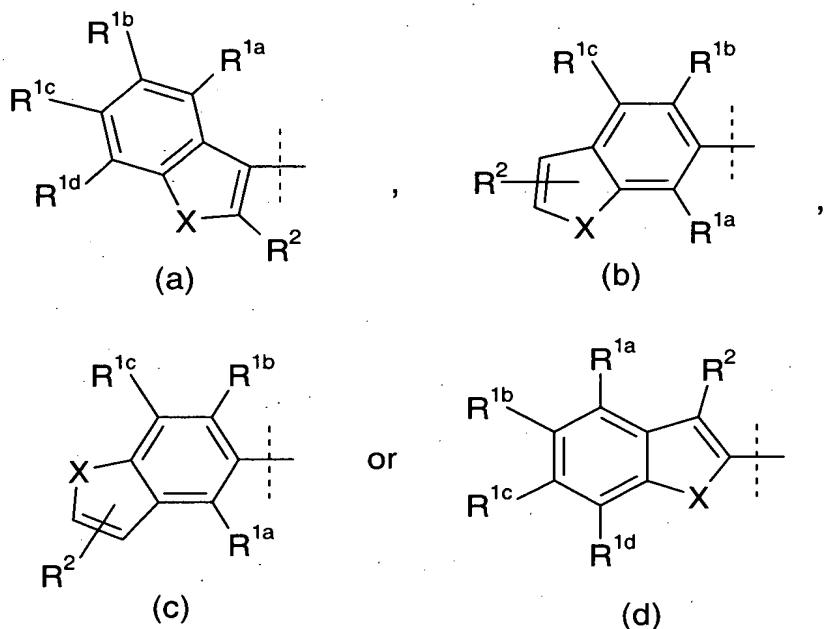
Amendments to the Claims

Claim 1. (Original) A compound of the formula:



wherein:

W represents:



X represents O or S;

Y represents -C(=O)-, -CH(OH)-, -CH2-, S, SO, or SO2;

----- represents a single or a double bond;

n is 1, 2, 3 or 4;

R^{1a}, R^{1b}, R^{1c}, R^{1d}, and R² are each independently H, F, Cl, Br, I, OH, C₁-C₆ alkyl,

C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, -NR₇R₈, CN or phenyl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN;

R₃ represents H, OH, hydroxy(C₁-C₆)alkyl, C₁-C₆ alkyl, or C₁-C₆ alkoxy;

R₄ represents aryl, heterocycle, C₃-C₈ cycloalkyl, aryl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN; or heterocycle substituted with from 1 to 3

substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN;

R₅ represents aryl, heterocycle, C₃-C₈ cycloalkyl, aryl substituted with from 1 to 3

substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, hydroxy(C₁-C₆)alkyl, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN; heterocycle substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, hydroxy(C₁-C₆)alkyl, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN; or C₃-C₈ cycloalkyl substituted with C₁-C₄ alkyl;

R_{6a} and R_{6b} are each independently H or C₁-C₃ alkyl;

R₇ and R₈ are each independently H, C₁-C₆ alkyl, aryl or aryl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN;

or a pharmaceutically acceptable salt thereof.

Claim 2. (Original) A compound according to claim 1 wherein X is O.

Claim 3. (Original) A compound according to claim 1 wherein X is S.

Claim 4. (Previously amended) A compound according to claim 1 wherein R₂ is H.

Claim 5. (Previously amended) A compound according to claim 1 wherein n is 2.

Claim 6. (Previously amended) A compound according to claim 1 wherein R₃ is H.

Claim 7. (Previously amended) A compound according to claim 1 wherein R₃ is methyl.

Claim 8. (Previously amended) A compound according to claim 1 wherein R₄ is 2-pyridyl.

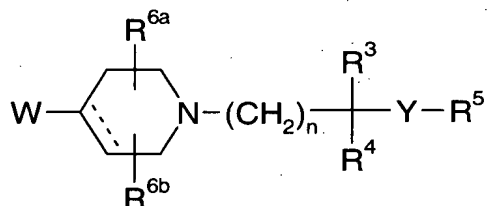
Claim 9. (Previously amended) A compound according to claim 1 wherein ----- is a double bond.

Claim 10. (Previously amended) A compound according to claim 1 wherein Y is -CO-.

Claim 11. (Original) A compound which is selected from the group consisting of:

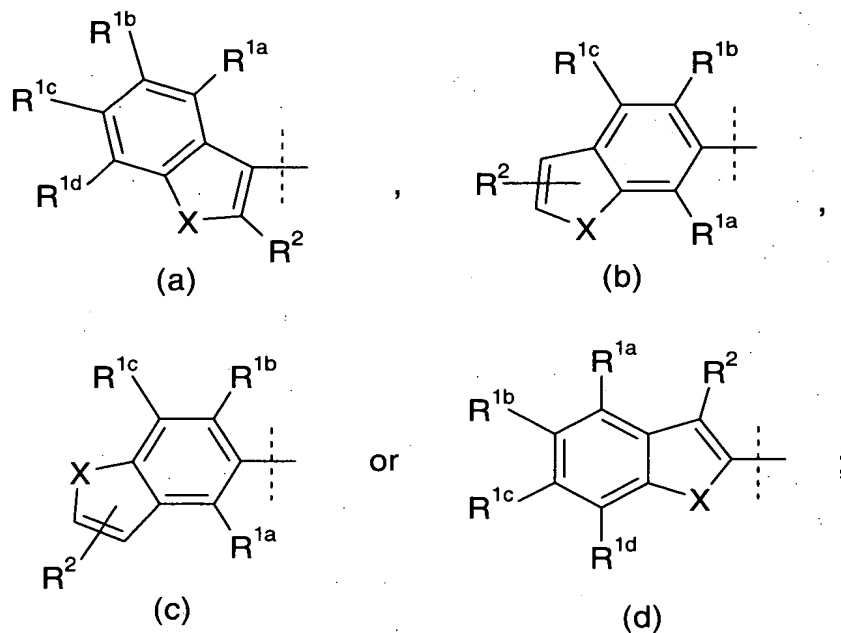
- a) 4-(6-benzo(b)thiophene-1,2,3,6-tetrahydropyridyl)-1-cyclohexyl-2-(2-pyridyl) butan-1-one;
- b) 4-(5-benzo(b)thiophene-1,2,3,6-tetrahydropyridyl)-1-cyclohexyl-2-(2-pyridyl) butan-1-one;
- c) 4-(2-benzo(b)thiophene-1,2,3,6-tetrahydropyridyl)-1-cyclohexyl-2-(2-pyridyl) butan-1-one; and
- d) 4-(3-benzo(b)thiophene-1,2,3,6-tetrahydropyridyl)-1-cyclohexyl-2-(2-pyridyl) butan-1-one; or a pharmaceutically acceptable salt thereof.

Claim 12. (Original) A method of inhibiting the reuptake of serotonin and antagonizing the 5-HT_{1A} receptor which comprises administering to a subject in need of such treatment an effective amount of a compound of the formula:



wherein:

W represents:



X represents O or S;

Y represents -C(=O)-, -CH(OH)-, -CH₂-, S, SO, or SO₂;

----- represents a single or a double bond;

n is 1, 2, 3 or 4;

R^{1a}, R^{1b}, R^{1c}, R^{1d}, and R² are each independently H, F, Cl, Br, I, OH, C₁-C₆ alkyl,

C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, -NR₇R₈, CN or phenyl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN;

R₃ represents H, OH, hydroxy(C₁-C₆)alkyl, C₁-C₆ alkyl, or C₁-C₆ alkoxy;

R₄ represents aryl, heterocycle, C₃-C₈ cycloalkyl, aryl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN; or heterocycle substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN;

R₅ represents aryl, heterocycle, C₃-C₈ cycloalkyl, aryl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, hydroxy(C₁-C₆)alkyl, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN; heterocycle substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆

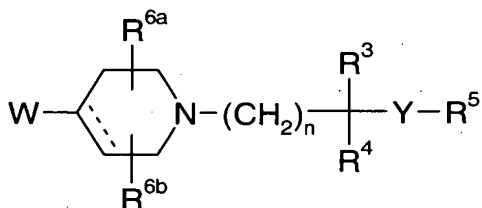
alkyl, C₁-C₆ alkoxy, hydroxy(C₁-C₆)alkyl, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN; or C₃-C₈ cycloalkyl substituted with C₁-C₄ alkyl;

R_{6a} and R_{6b} are each independently H or C₁-C₃ alkyl;

R₇ and R₈ are each independently H, C₁-C₆ alkyl, aryl or aryl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN;

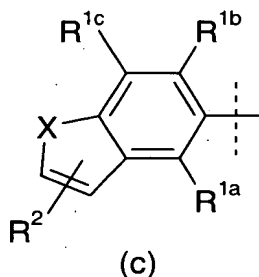
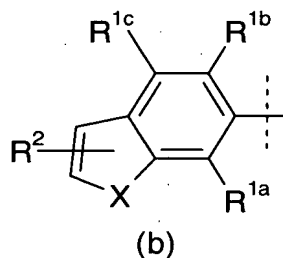
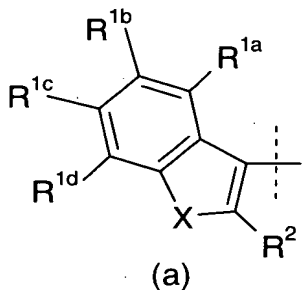
or a pharmaceutically acceptable salt thereof.

Claim 13. (Original) A method of potentiating the action of a serotonin reuptake inhibitor comprising administering to a subject in of such treatment a compound formula:

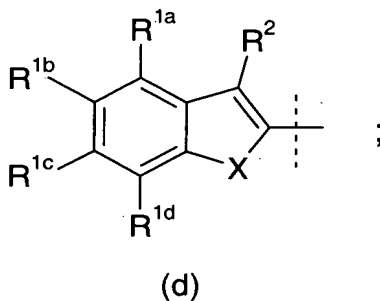


wherein:

W represents:



or



X represents O or S;

Y represents -C(=O)-, -CH(OH)-, -CH₂-, S, SO, or SO₂;

----- represents a single or a double bond;

n is 1, 2, 3 or 4;

R^{1a} , R^{1b} , R^{1c} , R^{1d} , and R^2 are each independently H, F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, -NR₇R₈, CN or phenyl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN;

R_3 represents H, OH, hydroxy(C₁-C₆)alkyl, C₁-C₆ alkyl, or C₁-C₆ alkoxy;

R_4 represents aryl, heterocycle, C₃-C₈ cycloalkyl, aryl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN; or heterocycle substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN;

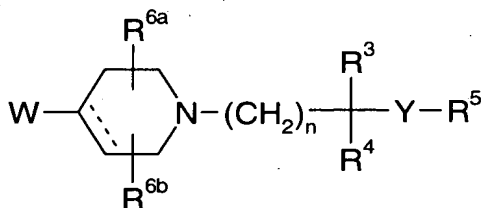
R_5 represents aryl, heterocycle, C₃-C₈ cycloalkyl, aryl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, hydroxy(C₁-C₆)alkyl, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN; heterocycle substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, hydroxy(C₁-C₆)alkyl, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN; or C₃-C₈ cycloalkyl substituted with C₁-C₄ alkyl;

R_{6a} and R_{6b} are each independently H or C₁-C₃ alkyl;

R_7 and R_8 are each independently H, C₁-C₆ alkyl, aryl or aryl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN;

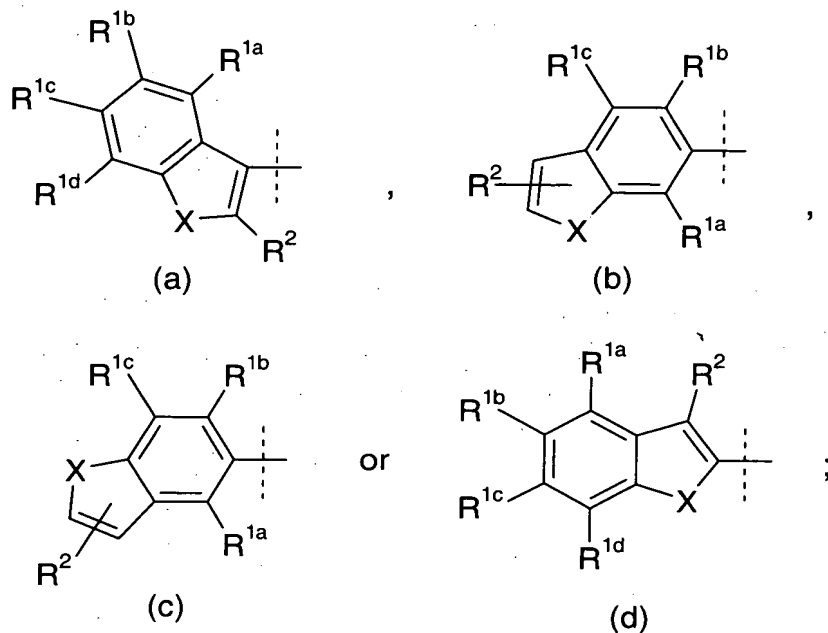
or a pharmaceutically acceptable salt thereof.

Claim 14. (Original) A method of treating depression comprising administering to a subject in need thereof an effective amount of a compound of formula:



wherein:

W represents:



X represents O or S;

Y represents $-C(=O)-$, $-CH(OH)-$, $-CH_2-$, S, SO, or SO_2 ;

----- represents a single or a double bond;

n is 1, 2, 3 or 4;

R^{1a} , R^{1b} , R^{1c} , R^{1d} , and R^2 are each independently H, F, Cl, Br, I, OH, C_1 - C_6 alkyl, C_1 - C_6 alkoxy, halo(C_1 - C_6)alkyl, phenyl, NO_2 , $-NR_7R_8$, CN or phenyl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C_1 - C_6 alkyl, C_1 - C_6 alkoxy, halo(C_1 - C_6)alkyl, phenyl, NO_2 , NH_2 , or CN;

R_3 represents H, OH, hydroxy(C_1 - C_6)alkyl, C_1 - C_6 alkyl, or C_1 - C_6 alkoxy;

R_4 represents aryl, heterocycle, C_3 - C_8 cycloalkyl, aryl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C_1 - C_6 alkyl, C_1 - C_6 alkoxy, halo(C_1 - C_6)alkyl, phenyl, NO_2 , NH_2 , or CN; or heterocycle substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C_1 - C_6 alkyl, C_1 - C_6 alkoxy, halo(C_1 - C_6)alkyl, phenyl, NO_2 , NH_2 , or CN;

R_5 represents aryl, heterocycle, C_3 - C_8 cycloalkyl, aryl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C_1 - C_6 alkyl, C_1 - C_6 alkoxy, hydroxy(C_1 - C_6)alkyl, halo(C_1 - C_6)alkyl, phenyl, NO_2 , NH_2 , or CN; heterocycle substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C_1 - C_6

alkyl, C₁-C₆ alkoxy, hydroxy(C₁-C₆)alkyl, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN; or C₃-C₈ cycloalkyl substituted with C₁-C₄ alkyl;

R_{6a} and R_{6b} are each independently H or C₁-C₃ alkyl;

R₇ and R₈ are each independently H, C₁-C₆ alkyl, aryl or aryl substituted with from 1 to 3 substituents selected from the group consisting of F, Cl, Br, I, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, halo(C₁-C₆)alkyl, phenyl, NO₂, NH₂, or CN;

or a pharmaceutically acceptable salt thereof.

Claim 15 (Previously amended). A pharmaceutical composition comprising an effective amount of a compound as claimed in claim 1 in combination with a pharmaceutical acceptable carrier, diluent or excipient.

Please cancel claims 16-20.